



# STIC Search Report

EIC 1700

STIC Database Tracking Number: 206433

**TO:** Eisa Elhilo  
**Location:** REM 9C19  
**Art Unit :** 1751  
**November 6, 2006**

**Case Serial Number:** 10/808694

**From:** Ross Shipe  
**Location:** EIC 1700  
**REMSEN 4B28**  
**Phone:** 571/272-6018  
**Ross.Shipe@uspto.gov**

## Search Notes

Dear Elhilo:

Please review the attached search results.

If you have any questions or if you would like to refine the search query, please feel free to contact me at any time.

Thank you for using EIC 1700 search services!

Ross Shipe (ASRC)  
Technical Information Specialist



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact **the EIC searcher or contact:**

**Kathleen Fuller, EIC 1700 Team Leader  
571/272-2505 REMSEN 4B28**

## **Voluntary Results Feedback Form**

- *I am an examiner in Workgroup:*  Example: 1713  
➤ *Relevant prior art found, search results used as follows:*

- 102 rejection
- 103 rejection
- Cited as being of interest.
- Helped examiner better understand the invention.
- Helped examiner better understand the state of the art in their technology.

*Types of relevant prior art found:*

- Foreign Patent(s)
- Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- Results verified the lack of relevant prior art (helped determine patentability).
- Results were not useful in determining patentability or understanding the invention.

**Comments:**

Drop off or send completed forms to EIC1700 REMSEN 4B28

=> d his full

(FILE 'HOME' ENTERED AT 12:00:27 ON 06 NOV 2006)

FILE 'HCAPLUS' ENTERED AT 12:00:45 ON 06 NOV 2006

FILE 'REGISTRY' ENTERED AT 12:43:26 ON 06 NOV 2006

L1	STR
L2	4 SEA SSS SAM L1
L3	113 SEA SSS FUL L1 SAV L3 ELH694/A
L4	1 SEA ABB=ON PLU=ON 7408-20-0/RN
L5	1 SEA ABB=ON PLU=ON 7722-84-1/RN
L6	1 SEA ABB=ON PLU=ON 29578-05-0/RN
L7	1 SEA ABB=ON PLU=ON 58976-65-1/RN
L8	1 SEA ABB=ON PLU=ON 148124-42-9/RN
L9	3 SEA ABB=ON PLU=ON L3 AND (L4 OR L5 OR L6 OR L7 OR L8)

FILE 'HCAPLUS' ENTERED AT 13:11:31 ON 06 NOV 2006

L10	388 SEA ABB=ON PLU=ON L3
L11	6 SEA ABB=ON PLU=ON L10 (L) (HAIR? OR KERATIN?) (L) (COLOR? OR DY?)
L12	8 SEA ABB=ON PLU=ON L10 AND (HAIR? OR KERATIN?) AND (COLOR? OR DY?)
L13	22 SEA ABB=ON PLU=ON L10 (L) (HAIR? OR KERATIN?) D SCAN L12 TI CC
L14	22 SEA ABB=ON PLU=ON L11 OR L12 OR L13
L15	22 SEA ABB=ON PLU=ON L14 AND ESSENTIAL OILS?/SC,SX
L16	18 SEA ABB=ON PLU=ON L15 AND (1840-2003)/PRY,PY,AY
L17	1 SEA ABB=ON PLU=ON L16 AND 2004:800833/AN

=> file reg

FILE 'REGISTRY' ENTERED AT 13:22:23 ON 06 NOV 2006

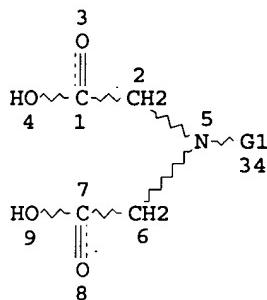
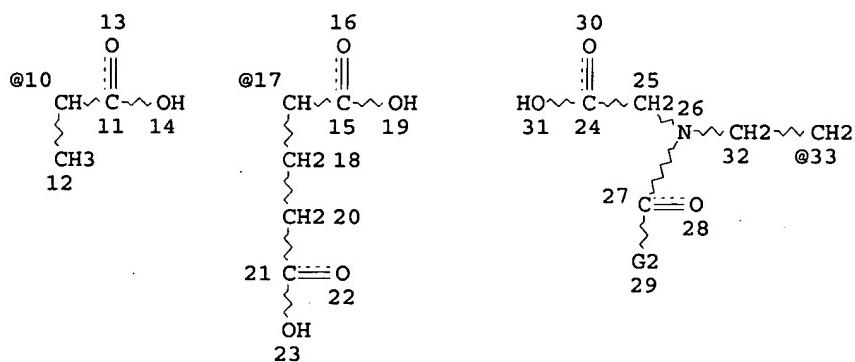
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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L1 STR



VAR G1=10/17/33

VAR G2=CB/AK

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

L3	113 SEA FILE=REGISTRY SSS FUL L1			
L10	388 SEA FILE=HCAPLUS ABB=ON PLU=ON	L3		
L11	6 SEA FILE=HCAPLUS ABB=ON PLU=ON	L10 (L) (HAIR? OR KERATIN?) (L) (COLOR? OR DY?)		
L12	8 SEA FILE=HCAPLUS ABB=ON PLU=ON	L10 AND (HAIR? OR KERATIN?) AND (COLOR? OR DY?)		
L13	22 SEA FILE=HCAPLUS ABB=ON PLU=ON	L10 (L) (HAIR? OR KERATIN?)		
L14	22 SEA FILE=HCAPLUS ABB=ON PLU=ON	L11 OR L12 OR L13		
L15	22 SEA FILE=HCAPLUS ABB=ON PLU=ON	L14 AND ESSENTIAL OILS/?SC,SX		
L16	18 SEA FILE=HCAPLUS ABB=ON PLU=ON	L15 AND (1840-2003)/PRY, PY,AY		

&gt;&gt; file hcaplus

FILE 'HCAPLUS' ENTERED AT 13:22:41 ON 06 NOV 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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&gt;&gt; d 116 1-18 ibib abs hitstr hitind

L16 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:963148 HCAPLUS  
 DOCUMENT NUMBER: 141:400486  
 TITLE: Storage-stable hydrogen peroxide-containing compositions  
 INVENTOR(S): Tsuge, Rinji; Konno, Yoshihiro  
 PATENT ASSIGNEE(S): Hoyu Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004315412	A2	20041111	JP 2003-110423	200304 15
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PRIORITY APPLN. INFO.:		JP 2003-110423		
		200304 15		
<--				

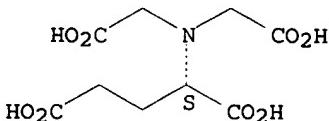
AB The compns. contain (A) H<sub>2</sub>O<sub>2</sub>, (B) allantoin, octyl salicylate, glycyrrhizic acids, glycyrrhetic acids, and/or glutamic acid-diacetic acids, (C) H<sub>2</sub>O, and optionally, (D) 1-hydroxyethane-1,1-diphosphonic acid or its salts, H<sub>3</sub>PO<sub>4</sub> and/or citric acid, surfactants, and oily ingredients. The compns. are combined with alkali agent compns. for use as hair dyes, hair bleaches, or permanent wave compns. A hair dye 2nd composition containing 35% H<sub>2</sub>O<sub>2</sub> solution 17.0, allantoin 0.1, citric acid 0.05, propylene glycol 0.5, cetanol 2.0, Na lauryl sulfate 0.5, stearyltrimethylammonium chloride 0.1, polyoxyethylene (2) cetyl ether 0.5, polyoxyethylene (20) cetyl ether 0.5, and H<sub>2</sub>O to 100 weight% was mixed at a weight ratio of 1:1 with a 1st composition containing NH<sub>4</sub>OH and monoethanolamine to give a hair dye, which showed ≥98% residual H<sub>2</sub>O<sub>2</sub> after 1-mo storage at 50° or after 6-mo storage at 40° and good hair-dyeing effect.

IT 51981-21-6, L-Glutamic acid-N,N-diacetic acid tetrasodium salt 58976-65-1, L-Glutamic acid-N,N-diacetic acid  
 RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
 (storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing stabilizers for hair dyes, bleaches, or permanent wave compns.)

RN 51981-21-6 HCAPLUS

CN L-Glutamic acid, N,N-bis(carboxymethyl)-, tetrasodium salt (9CI)  
 (CA INDEX NAME)

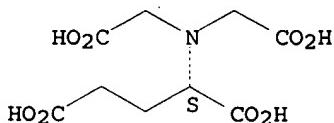
Absolute stereochemistry.



●4 Na

RN 58976-65-1 HCAPLUS  
 CN L-Glutamic acid, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



- IC ICM A61K0007-06  
ICS A61K0007-09; A61K0007-13; A61K0007-135  
CC 62-3 (Essential Oils and Cosmetics)  
ST hydrogen peroxide stability hair dye bleach;  
permanent wave hair hydrogen peroxide stability; allantoin  
hydrogen peroxide hair dye bleach; octyl  
salicylate hydrogen peroxide hair dye;  
glycyrrhetinate glutamic diacetic hydrogen peroxide hair;  
hydroxyethanediphosphonate phosphate citrate hydrogen peroxide  
hair  
IT Hair preparations  
(bleaches; storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing stabilizers  
for hair dyes, bleaches, or permanent wave  
compns.)  
IT Hair preparations  
(dyes; storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing  
stabilizers for hair dyes, bleaches, or  
permanent wave compns.)  
IT Hair preparations  
(permanent wave; storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing  
stabilizers for hair dyes, bleaches, or  
permanent wave compns.)  
IT Human  
Surfactants  
(storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing stabilizers for  
hair dyes, bleaches, or permanent wave compns.)  
IT Hair preparations  
(straighteners; storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing  
stabilizers for hair dyes, bleaches, or  
permanent wave compns.)  
IT 7722-84-1, Hydrogen peroxide, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing stabilizers for  
hair dyes, bleaches, or permanent wave compns.)  
IT 57-55-6, Propylene glycol, biological studies 77-92-9, Citric  
acid, biological studies 97-59-6, Allantoin 112-03-8,  
Stearyltrimethylammonium chloride 118-60-5, Octyl salicylate  
151-21-3, Sodium lauryl sulfate, biological studies 471-53-4,  
Glycyrrhetic acid 1405-86-3, Glycyrrhizic acid 2809-21-4,  
1-Hydroxyethane-1,1-diphosphonic acid 3794-83-0,  
1-Hydroxyethane-1,1-diphosphonic acid tetrasodium salt 7664-38-2,  
Phosphoric acid, biological studies 9004-95-9, Polyoxyethylene  
cetyl ether 36653-82-4, Cetanol 51981-21-6, L-Glutamic  
acid-N,N-diacetic acid tetrasodium salt 58976-65-1,  
L-Glutamic acid-N,N-diacetic acid 68797-35-3, Dipotassium  
glycyrrhizinate  
RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL  
(Biological study); USES (Uses)  
(storage-stable H<sub>2</sub>O<sub>2</sub>-containing compns. containing stabilizers for  
hair dyes, bleaches, or permanent wave compns.)

L16 ANSWER 2 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:822985 HCPLUS

DOCUMENT NUMBER: 141:337250

TITLE: Composition for coloring for human  
keratinic substances containing a

INVENTOR(S): fluorescent dye and a particulate sequestering agent  
 PATENT ASSIGNEE(S): Plos, Gregory; Gourlaouen, Luc  
 SOURCE: L'oreal, Fr.  
 DOCUMENT TYPE: Fr. Demande, 35 pp.  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: French  
 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2853231	A1	20041008	FR 2003-4024	200304 01
WO 2004091556	A2	20041028	WO 2004-FR818	200404 01
WO 2004091556	A3	20050217		<--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005098763	A1	20050512	US 2004-814585	200404 01
BR 2004005648	A	20050719	BR 2004-5648	200404 01
EP 1622580	A2	20060208	EP 2004-758927	200404 01
<-- R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK JP 2006522077                   T2      20060928      JP 2006-505773				
200404 01				
<-- PRIORITY APPLN. INFO.:                   FR 2003-4024      A 200304 01				
<-- US 2003-468081P      P 200305 06				
<-- WO 2004-FR818      W 200404 01				

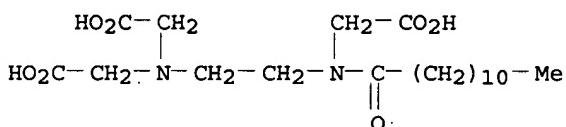
OTHER SOURCE(S): MARPAT 141:337250

AB A composition for coloring human hair comprises a fluorescent dye and a particulate sequestering agent. Thus, 2-picoline was reacted with 1,6-dibromohexane to obtain a precipitate which was separated and reacted with p-dimethylaminobenzaldehyde to obtain 1,6-bis[(2-p-dimethylaminophenylethenyl)pyridinium]hexane polymer (I). A hair dye contained I 1, mucic acid 0.2, pH adjusting agent q.s., and water q.s. 100%.

IT 148124-42-9  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (composition for coloring for human keratinic substances containing fluorescent dye and particulate sequestering agent)

RN 148124-42-9 HCAPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-(9CI) (CA INDEX NAME)



IC ICM A61K0007-13  
 ICS A61K0007-021

CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 25

ST hair color particulate fluorescent dye  
 sequestering agent

IT Azo dyes  
 Sequestering agents  
 (composition for coloring for human keratinic substances containing fluorescent dye and particulate sequestering agent)

IT Hair preparations  
 (dyes; composition for coloring for human keratinic substances containing fluorescent dye and particulate sequestering agent)

IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydroxy; composition for coloring for human keratinic substances containing fluorescent dye and particulate sequestering agent)

IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (polycarboxylic; composition for coloring for human keratinic substances containing fluorescent dye and particulate sequestering agent)

IT 81-83-4D, Naphthalimide, derivs. 526-99-8, Mucic acid  
 1199-01-5D, Azlactone, derivs. 2465-27-2D, derivs. 29556-33-0  
**148124-42-9**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (composition for coloring for human keratinic substances containing fluorescent dye and particulate sequestering agent)

IT 139537-27-2P  
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (composition for coloring for human keratinic substances containing fluorescent dye and particulate sequestering agent)

IT 100-10-7, p-Dimethylaminobenzaldehyde 109-06-8, 2-Picoline  
 629-03-8, 1,6-Dibromohexane  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (composition for coloring for human keratinic

substances containing fluorescent dye and particulate  
sequestering agent)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

L16 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:800834 HCAPLUS  
DOCUMENT NUMBER: 141:319490  
TITLE: Reducing compositions for the decoloration or  
permanent deformation of keratin fibers,  
comprising polycarboxylic acids and their salts  
as complexing agents  
PATENT ASSIGNEE(S): L'Oreal, Fr.  
SOURCE: Fr. Demande, 56 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2852837	A1	20041001	FR 2003-50066	200303 25
FR 2852839	A1	20041001	FR 2003-50079	200303 28
FR 2852839	B1	20060818	<--	
EP 1473022	A2	20041103	EP 2004-101246	200403 25
EP 1473022	A3	20050824	<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
US 2005036970	A1	20050217	US 2004-809879	200403 25
PRIORITY APPLN. INFO.:			FR 2003-50066	A 200303 25
			FR 2003-50079	A 200303 28
			US 2003-461982P	P 200304 11

OTHER SOURCE(S): MARPAT 141:319490  
 AB Reducing compns. for the decoloration or permanent deformation of  
keratin fibers, particularly hair, comprise polycarboxylic acids and  
their salts as complexing agents. A reducing composition contained  
sodium hydroxymethane sulfinate 7, cetyl alc. 3, sodium lauryl  
sulfate 0.7, benzyl alc. 2, propylene glycol 10, 40% trisodium  
methylglycine diacetic acid 0.15, 85% PO4H2 q.s. pH = 2.7, and water  
q.s. 100 g.

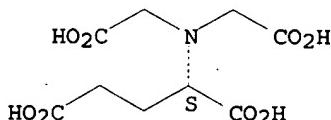
IT 58976-65-1 148124-42-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (reducing compns. for decoloration or permanent deformation of  
 keratin fibers, comprising polycarboxylic acids and their  
 salts as complexing agents)

RN 58976-65-1 HCPLUS

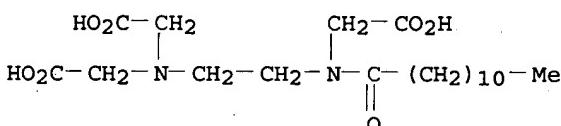
CN L-Glutamic acid, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 148124-42-9 HCPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-  
 (9CI) (CA INDEX NAME)



IC ICM A61K0007-135  
 ICS A61K0007-09

CC 62-3 (Essential Oils and Cosmetics)

IT 52-90-4, Cysteine, biological studies 68-11-1, Thioglycolic acid,  
 biological studies 79-42-5, Thiolactic acid 93-62-9, 123-93-3,  
 Thiodiglycolic acid 7408-20-0, Iminodisuccinic acid  
**58976-65-1 110594-46-2 148124-42-9**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (reducing compns. for decoloration or permanent deformation of  
 keratin fibers, comprising polycarboxylic acids and their  
 salts as complexing agents)

L16 ANSWER 4 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:800833 HCPLUS

DOCUMENT NUMBER: 141:319489

TITLE: Use of polycarboxylic acids and their salts as  
 sequestering agents in oxidizing compositions  
 for coloring, discoloring, or  
 permanent deformation of keratin  
 fibers

INVENTOR(S): Legrand, Frederic; Millequant, Jean Marie

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: Fr. Demande, 75 pp.

DOCUMENT TYPE: CODEN: FRXXBL

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: French

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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FR 2852835	A1	20041001	FR 2003-50064	200303 25
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FR 2852838	A1	20041001	FR 2003-50078	200303

28

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EP 1475074 A1 20041110 EP 2004-101243200403  
25<--  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,  
PL, SK

US 2005039270 A1 20050224 US 2004-808694

200403  
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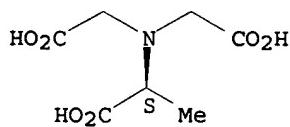
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FR 2003-50078 A 200303  
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US 2003-461983P P 200304  
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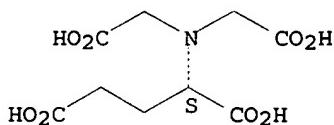
- <--  
AB The use of polycarboxylic acids and their salts as sequestering agents in oxidizing compns. intended for the discoloration or the permanent deformation of **keratinous** fibers, in particular of human **keratinous** fibers, such as hair is claimed. It also refers to oxidizing compns. for the discoloration or the permanent deformation of **keratinous** fibers, which contain such sequestering agents, as well as the processes and devices or "kits" of discoloration or permanent **keratinous** fiber deformation. An oxidizing composition contained 40% trisodium methylglycinediacetic acid 0.075, hydrogen peroxide 12, 85% phosphoric acid q.s. pH = 2, and water q.s. 100 g. The composition was more stable than control containing 40% pentasodium diethylene triamine pentacetic acid.
- IT 29578-05-0, Methylglycinediacetic acid 58976-65-1  
148124-42-9  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(use of polycarboxylic acids and their salts as sequestering agents in oxidizing compns. for coloring, discoloring, or permanent deformation of **keratin** fibers)
- RN 29578-05-0 HCPLUS  
CN L-Alanine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

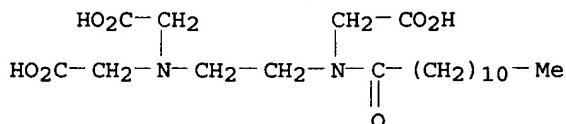


RN 58976-65-1 HCPLUS  
CN L-Glutamic acid, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 148124-42-9 HCPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-  
 (9CI) (CA INDEX NAME)



- IC ICM A61K0007-135  
 ICS A61K0007-13; A61K0007-09  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST polycarboxylic acid salt sequestering agent oxidizing  
 coloring discoloring  
 IT Hair preparations  
 (bleaches; use of polycarboxylic acids and their salts as  
 sequestering agents in oxidizing compns. for coloring,  
 discoloring, or permanent deformation of keratin  
 fibers)  
 IT Hair preparations  
 (dyes; use of polycarboxylic acids and their salts as  
 sequestering agents in oxidizing compns. for coloring,  
 discoloring, or permanent deformation of keratin  
 fibers)  
 IT Hair preparations  
 (permanent wave; use of polycarboxylic acids and their salts as  
 sequestering agents in oxidizing compns. for coloring,  
 discoloring, or permanent deformation of keratin  
 fibers)  
 IT Carboxylic acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (polycarboxylic; use of polycarboxylic acids and their salts as  
 sequestering agents in oxidizing compns. for coloring,  
 discoloring, or permanent deformation of keratin  
 fibers)  
 IT Complexing agents  
 Sequestering agents  
 (use of polycarboxylic acids and their salts as sequestering  
 agents in oxidizing compns. for coloring, discoloring,  
 or permanent deformation of keratin fibers)  
 IT 7408-20-0, Iminodisuccinic acid 7722-84-1, Hydrogen peroxide,  
 biological studies 29578-05-0, Methylglycinediacetic acid  
 58976-65-1 148124-42-9  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (use of polycarboxylic acids and their salts as sequestering  
 agents in oxidizing compns. for coloring, discoloring,  
 or permanent deformation of keratin fibers)

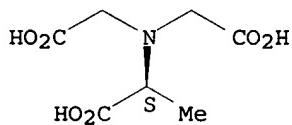
L16 ANSWER 5 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:794538 HCPLUS  
 DOCUMENT NUMBER: 141:282420  
 TITLE: Hair dyeing composition  
 comprising at least one polycarboxylic acid or a  
 salt thereof, ready-to-use composition  
 comprising it, process and apparatus.

INVENTOR(S): Desenne, Patricia; Millequant, Jean-Marie  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 23 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1462093	A2	20040929	EP 2004-290799	200403 25
<--				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2852833	A1	20041001	FR 2003-50062	200303 25
<--				
FR 2852831	A1	20041001	FR 2003-3874	200303 28
<--				
US 2004237217	A1	20041202	US 2004-808676	200403 25
<--				
PRIORITY APPLN. INFO.:			FR 2003-50062	A 200303 25
<--				
			FR 2003-3874	A 200303 28
<--				
			US 2003-461303P	P 200304 08
<--				

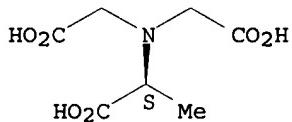
OTHER SOURCE(S): MARPAT 141:282420  
 AB Hair dye compns. comprising an oxidation base, a direct dye, and a polycarboxylic acid or salts thereof are claimed. A hair dye preparation contained oleyl alc. 4, polyglycerol oleyl alc. 13, 55 % diethylaminopropyl lauryl aminosuccinamate 2, oleic acid 5, Aminol A15 12, Rhodameen 02 5, ethanol 9, propylene glycol 5, butoxydiglycol 10, 28% disodium 2-hydroxyethyliminodiacetate 0.96, 1,3-dihydroxybenzene 0.085, paraphenylenediamine 0.27, 5-N-( $\beta$ -hydroxyethyl)amino-2-methyl-phenol 0.16, 2-methyl-5-aminophenol 1.12, para-aminophenol 0.2, 6-hydroxy indole 0.045, antioxidant q.s., reducing agents q.s., perfume q.s. 20% ammonia 10.2, and water q.s. 100%. At the time of use the preparation is mixed with equal amts. of 6% hydrogen peroxide and applied on the hair for 30 min, then rinsed to obtain the selected color.  
 IT 29578-05-0 29578-05-0D, salts 58976-65-1  
58976-65-1D, salts 148124-42-9  
148124-42-9D, salts  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dyeing composition comprising at least one polycarboxylic acid or salt thereof)  
 RN 29578-05-0 HCPLUS  
 CN L-Alanine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



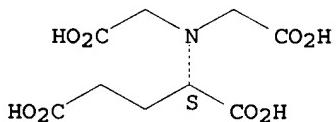
RN 29578-05-0 HCAPLUS  
 CN L-Alanine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



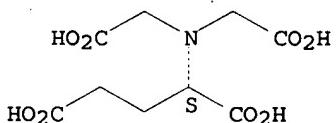
RN 58976-65-1 HCAPLUS  
 CN L-Glutamic acid, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

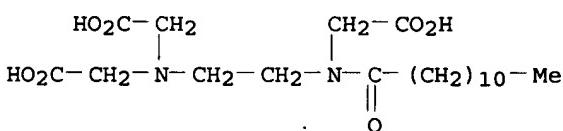


RN 58976-65-1 HCAPLUS  
 CN L-Glutamic acid, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

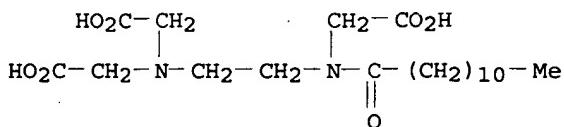
Absolute stereochemistry.



RN 148124-42-9 HCAPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)- (9CI) (CA INDEX NAME)



RN 148124-42-9 HCAPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)- (9CI) (CA INDEX NAME)



IC ICM A61K0007-13  
 ICS A61K0007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST hair dye polycarboxylic acid salt  
 hydroxyethyliminodiacetate  
 IT Hair preparations  
     (dyes; hair dyeing composition  
     comprising at least one polycarboxylic acid or salt thereof)  
 IT Carboxylic acids, biological studies  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (polycarboxylic, salts; hair dyeing composition  
     comprising at least one polycarboxylic acid or salt thereof)  
 IT Carboxylic acids, biological studies  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (polycarboxylic; hair dyeing composition  
     comprising at least one polycarboxylic acid or salt thereof)  
 IT 93-62-9 93-62-9D, salts 7408-20-0, Iminodisuccinic acid  
     7408-20-0D, salts 29578-05-0 29578-05-0D, salts  
     58976-65-1 58976-65-1D, salts 148124-42-9  
     148124-42-9D, salts  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (hair dyeing composition comprising at least one  
     polycarboxylic acid or salt thereof)

L16 ANSWER 6 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:794532 HCPLUS  
 DOCUMENT NUMBER: 141:282415  
 TITLE: Cosmetic composition for treating keratinous  
       materials comprising a polycarboxylic acid and a  
       protecting or conditioning agent  
 INVENTOR(S): Mueller, Rainer; Desenne, Patricia  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 30 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1462087	A2	20040929	EP 2004-290712	200403 16 -->
FR 2852823	A1	20041001	FR 2003-3639	200303 25 -->
FR 2852825	A1	20041001	FR 2003-3878	200303 28 -->
PRIORITY APPLN. INFO.: FR 2003-3639				A

200303  
25

<--  
FR 2003-3878 A

200303  
28

&lt;--

OTHER SOURCE(S): MARPAT 141:282415  
 AB Cosmetic compns. for treating keratinous materials, particularly hair, comprise a protecting or conditioning agent and a polycarboxylic acid such as methylglycinediacetic acid, 2-hydroxyethyliminodiacetic acid, iminodisuccinic acid, N,N-dicarboxymethyl L-glutamic acid and their salt. These compns. improve the cosmetic property of the treated hair and facilitate and maintain the style and volume of the treated hair. A shampoo contained guar hydroxypropyltrimonium chloride 0.05, 32% cocobetaine 9, 70% sodium lauryl ether (20E) sulfate 22.2, sodium Me paraben 0.2, DMDM hydantoin 0.25, trisodium methylglycinediacetic acid (Trilon M) 0.6, dimethicone (DC 200 Fluid 300000) 2.7, a mixture of cetyl alc. and 1-(hexadecyloxy)-2-octadecanol 2.5, fragrances 0.5, coprah monoisopropanolamide (cocamide MIPA) 0.3, carbomer 0.2, a mixture of vitamins (A/E/panthenol) 0.6, citric acid q.s. pH = 7.0, and water q.s. 100%.

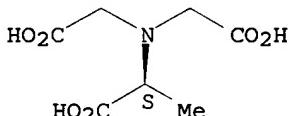
IT 29578-05-0

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cosmetic composition for treating **keratinous** materials comprising polycarboxylic acid and protecting or conditioning agent)

RN 29578-05-0 HCPLUS

CN L-Alanine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IC ICM A61K0007-06

CC 62-3 (**Essential Oils and Cosmetics**)

IT 93-62-9 7408-20-0, Iminodisuccinic acid 29578-05-0

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cosmetic composition for treating **keratinous** materials comprising polycarboxylic acid and protecting or conditioning agent)

L16 ANSWER 7 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:794531 HCPLUS

DOCUMENT NUMBER: 141:282414

TITLE: Use of a carboxylic acid or its salts as a conditioning agent for **keratinic** materials

INVENTOR(S): Mueller, Rainer

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 13 pp.

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1462086	A1	20040929	EP 2004-290562	
				200403
				02
<--				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2852827	A1	20041001	FR 2003-3637	
				200303
				25
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FR 2852827	B1	20060714		
FR 2852824	A1	20041001	FR 2003-3641	
				200303
				25
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FR 2852824	B1	20060714		
FR 2852829	A1	20041001	FR 2003-3879	
				200303
				28
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FR 2852829	B1	20060714		
US 2004234489	A1	20041125	US 2004-807149	
				200403
				23
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PRIORITY APPLN. INFO.:		FR 2003-3637	A	
				200303
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<--				
		FR 2003-3641	A	
				200303
				25
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		FR 2003-3879	A	
				200303
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<--				
		US 2003-461213P	P	
				200304
				08
<--				
		US 2003-461218P	P	
				200304
				08
<--				

AB Carboxylic acids R1-(CHOH)4-CO2X and R2-N-(CH(R'))-COOX)2 (R1 = CH2OH or CO2X; X = H, monovalent cation, amine or ammonium ion; R2 = H, -CH(COOX)-(CH2)2-COOX, CH2CH2OH, -CH(CH3)-COOX, -(CH2)2-N(COR")-CH2-COOX; R" = linear or branched C1-30 alkyl, R' = -CH2-COOX when R2 = H, and R' = H when R2 is different than H atom) are claimed as conditioning agent for hair. A shampoo contained sodium lauryl ether sulfate 12, 32% cocobetain 10, copra monoethanolamide 0.50, laureth-12 0.25, mucic acid 0.30, dyes q.s., perfume 0.50, preservatives 0.40, sodium hydroxide q.s. pH = 6.7, hexylene glycol q.s., and water q.s. 100%.

IT 29578-05-0 58976-65-1 148124-42-9

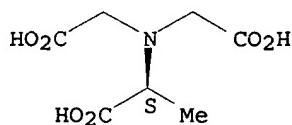
170492-24-7, Trilon m

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(use of carboxylic acid or its salts as conditioning agent for keratinic materials)

RN 29578-05-0 HCPLUS

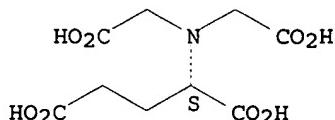
CN L-Alanine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

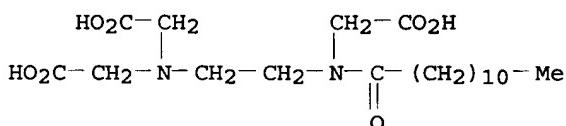


RN 58976-65-1 HCAPLUS  
 CN L-Glutamic acid, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

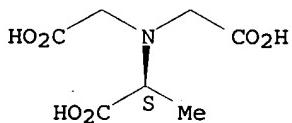


RN 148124-42-9 HCAPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)- (9CI) (CA INDEX NAME)



RN 170492-24-7 HCAPLUS  
 CN L-Alanine, N,N-bis(carboxymethyl)-, trisodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●3 Na

IC ICM A61K0007-06  
 ICS A61K0007-50  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT Cosmetics  
     (conditioners; use of carboxylic acid or its salts as conditioning agent for keratinic materials)  
 IT Carboxylic acids, biological studies  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (salts; use of carboxylic acid or its salts as conditioning agent for keratinic materials)  
 IT Shampoos  
     (use of carboxylic acid or its salts as conditioning agent for keratinic materials)  
 IT 93-62-9 526-99-8, Mucic acid 7408-20-0, Iminodisuccinic acid  
 29578-05-0 58976-65-1 148124-42-9  
 170492-24-7, Trilon m  
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
     (use of carboxylic acid or its salts as conditioning agent for

## keratinic materials)

L16 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:432993 HCAPLUS  
 DOCUMENT NUMBER: 140:428666  
 TITLE: Conditioning shampoos containing sequestering surfactants, oils, and cationic polymers  
 INVENTOR(S): Nagano, Tanemasa; Miyahara, Reiji  
 PATENT ASSIGNEE(S): Shiseido Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004149436	A2	20040527	JP 2002-315136	200210 30
<-- PRIORITY APPLN. INFO.: JP 2002-315136 200210 30				

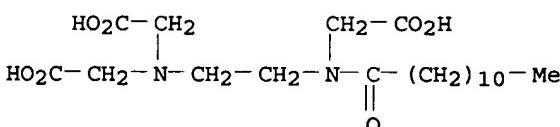
AB The shampoos, which show high sudsing power, rich foams, and give soft and smooth texture to hair when rinsed and are especially useful for damaged hair, contain (a) ≥1 surfactant selected from ethylenediamine-acetate anionic surfactants, glutamate anionic surfactants, and hydroxy ether carboxylate salts, (b) oils, and (c) cationic polymers. Thus, a conditioning shampoo was prepared from N-lauroylethylenediaminetetraacetic acid Na salt 0.3, polyoxyethylene lauryl ether sulfate 11, Na cocoamphoacetate 4, ethylene glycol distearate 2, coco fatty monoethanolamide 2.7, BY 22-077 (silicone emulsion) 1.5, Polymer JR 400 (cationic cellulose) 0.5, Sensomer CI 50 (cationic potato starch) 0.25, citric acid 0.45, glutamic acid 0.1, EDTA-2Na·2H<sub>2</sub>O 0.3%, and H<sub>2</sub>O balance.

IT 206886-68-2  
 RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(conditioning shampoos, especially useful for damaged hair, containing Ca-sequestering surfactants, oils, and cationic polymers)

RN 206886-68-2 HCAPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-, sodium salt (9CI) (CA INDEX NAME)



● x Na

IC ICM A61K0007-075  
 ICS C11D0001-04; C11D0001-68; C11D0003-37  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 56-86-0D, Glutamic acid, N-cocoyl derivs., potassium salts  
 119793-28-1 206886-68-2 533935-73-8, Amisoft CK 22  
 RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL

(Biological study); USES (Uses)  
 (conditioning shampoos, especially useful for damaged hair,  
 containing Ca-sequestering surfactants, oils, and cationic polymers)

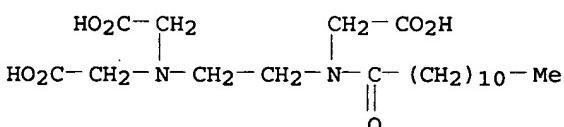
L16 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:18717 HCAPLUS  
 DOCUMENT NUMBER: 140:81858  
 TITLE: Hair relaxer compositions generating hydroxide  
 ions with a visual indicator  
 INVENTOR(S): Nguyen, Nghi Van; Cannell, David W.  
 PATENT ASSIGNEE(S): L'Oreal, S.A., USA  
 SOURCE: U.S. Pat. Appl. Publ., 10 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004005284	A1	20040108	US 2002-183431	200206 28
US 6800277	B2	20041005	US 2002-183431	200206 28

AB A method for lanthionizing keratin fibers to achieve relaxation using a combination of at least one carbonate compound, at least one chelating acid, and at least one hydroxide compound, as well as multicomponent kits for lanthionizing keratin fibers are provided. For example, a calcium hydroxide cream was prepared containing (by weight) cetyl alc. 1.0%, Steareth-2 0.5%, Steareth-10 2.5%, mineral oil 15.0%, petrolatum 5.5%, cetearyl alc. and cetearyl phosphate 7.5%, propylene glycol 3.0%, calcium hydroxide 5.0%, and water 60.0%. Relaxers formed from calcium hydroxide cream and Na<sub>2</sub>EDTA and KHCO<sub>3</sub> can straighten natural kinky hair.

IT 148124-42-9, N-Lauroyl-N,N',N'-ethylenediaminetriacetic acid  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair relaxer compns. comprising carbonate compound,  
 chelating acid, and hydroxide compound with visual indicator)

RN 148124-42-9 HCAPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-  
 (9CI) (CA INDEX NAME)



IC ICM A61K0007-06  
 ICS A61K0007-09  
 INCL 424070200; X42-4 7.04  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 60-00-4, Ethylenediamine tetraacetic acid, biological studies  
 67-43-6, Diethylenetriaminepentaacetic acid 77-92-9, Citric acid,  
 biological studies 87-69-4, Tartaric acid, biological studies  
 93-62-9, N-2-Hydroxyethyliminodiacetic acid 139-13-9,  
 Nitritotriacetic acid 139-33-3, Disodium edetate 150-39-0,  
 N-(Hydroxyethyl)ethylenediamine triacetic acid 298-14-6, Potassium

bicarbonate 497-19-8, Sodium carbonate, biological studies  
 584-08-7, Potassium carbonate 866-84-2, Potassium citrate  
 1305-62-0, Calcium hydroxide, biological studies 1309-42-8,  
 Magnesium hydroxide 2817-45-0, Aminophosphonic acid 6419-19-8,  
 Aminotrimethyleneephosphonic acid 7408-20-0, Iminodisuccinic acid  
 12672-51-4, Cobalt hydroxide 17194-00-2, Barium hydroxide  
 18480-07-4, Strontium hydroxide 18933-05-6, Manganese hydroxide  
 20427-58-1, Zinc hydroxide 20427-59-2, Cupric hydroxide  
 21645-51-2, Aluminum hydroxide, biological studies 100224-74-6,  
 Guanidine carbonate 126853-99-4, Molybdenum hydroxide  
**148124-42-9, N-Lauroyl-N,N',N'-ethylenediaminetriacetic acid**  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair relaxer compns. comprising carbonate compound,  
 chelating acid, and hydroxide compound with visual indicator)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L16 ANSWER 10 OF 18 HCPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2003:434413 HCPLUS

DOCUMENT NUMBER: 138:406589

TITLE: Deodorant and cosmetic shampoo preparation  
 containing the same

INVENTOR(S): Okada, Toru

PATENT ASSIGNEE(S): Yugen Kaisha Okada Giken, Japan

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003045449	A1	20030605	WO 2002-JP12252	200211 25

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W: CN, JP, KR, US

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE,  
 IT, LU, MC, NL, PT, SE, SK, TR

EP 1452188	A1	20040901	EP 2002-803922	200211 25
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
 PT, IE, FI, CY, TR, BG, CZ, EE, SK

US 2005265940	A1	20051201	US 2005-496417	200506 20
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PRIORITY APPLN. INFO.:	JP 2001-359183	A	200111 26
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WO 2002-JP12252	W	200211 25
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AB Disclosed is a deodorant which is suitable for removal of various  
 odors in daily life, especially for removing a chemical odor remaining in the  
 hair after a permanent wave treatment. It does not irritate the  
 hair and skin and is suitable for incorporation into a shampoo,  
 treatment, etc. The deodorant contains a deodorizing ingredient  
 selected among the following (a) to (d): (a) an oxoacid salt of a

divalent metal, (b) a fatty acid salt of a divalent metal, (c) a combination of an oxide of a divalent metal with an oxoacid, fatty acid, or chelating agent, and (d) a combination of an inorg. acid salt of a divalent metal with an oxoacid, fatty acid, or chelating agent. A deodorant for ammonia and hydrogen sulfide was formulated containing cupric oxide 1, EDTA 5, cocoamidopropylbetaine 10, and distilled water balance to 100 %.

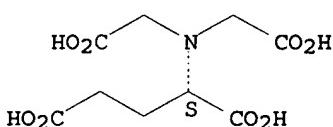
IT 51981-21-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acid salts and oxides and chelators as deodorants for chemical odors from hair treatment)

RN 51981-21-6 HCPLUS

CN L-Glutamic acid, N,N-bis(carboxymethyl)-, tetrasodium salt (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



## ● 4 Na

IC ICM A61L0009-01  
ICS A61K0007-075

CC 62-3 (Essential Oils and Cosmetics)

IT 50-81-7, L-Ascorbic acid, biological studies 60-00-4, EDTA,  
biological studies 127-17-3, Pyruvic acid, biological studies  
139-13-9 142-71-2, Cupric acetate 149-91-7, Gallic acid,  
biological studies 150-39-0, Hydroxyethylethylenediaminetriacetic  
acid 527-09-3, Cupric gluconate 869-52-3,  
Triethylenetetraminehexaacetic acid 1314-13-2, Zinc oxide,  
biological studies 1317-38-0, Cupric oxide, biological studies  
1345-25-1, Ferrous oxide, biological studies 3112-74-1, Cupric  
propionate 4468-02-4, Zinc gluconate 7758-98-7, Cupric sulfate,  
biological studies 51981-21-6 59149-04-1D, alkyl derivs.  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(acid salts and oxides and chelators as deodorants for chemical  
odors from hair treatment)

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L16 ANSWER 11 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:154769 HCPLUS

DOCUMENT NUMBER: 138:209902

TITLE: Compositions comprising a hydroxide compound and  
an oxidizing agent for straightening curly hair

INVENTOR(S): Nguyen, Nghi Van; Cannell, David W.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 10 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2003037384	A1	20030227	US 2001-931913	

200108  
20

WO 2003015732 A1 20030227 WO 2002-US21848

200208  
16

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W: CA, JP, US

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, SK, TR

PRIORITY APPLN. INFO.: US 2001-931913 A

200108  
20

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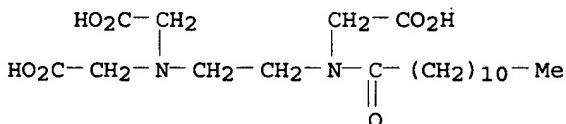
AB Compns., optionally heat-activated, methods and kits for lanthionizing keratinous fibers to achieve relaxation of the keratinous fibers comprising applying to keratinous fibers a composition comprising at least one hydroxide compound and at least one oxidizing agent. For example, compns. comprising 0.01-0.5% NaOH and 3-12% H<sub>2</sub>O<sub>2</sub> were prepared. A naturally kinky hair swatch was either sprayed with, or was soaked in, the solution and then blotted dry. A hot curling iron was used to pull the hair straight for 3-12 s. The hair swatch was rinsed and shampooed, and then placed in a humidity chamber at 90% relative humidity for 24 h. The relaxing efficacy was, e.g., 22% for the composition containing 0.01% NaOH and 1% H<sub>2</sub>O<sub>2</sub>, and 96% for the composition containing 0.5% NaOH and 12% H<sub>2</sub>O<sub>2</sub>.

IT 148124-42-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair straightening compns. comprising hydroxide and oxidizing agent)

RN 148124-42-9 HCPLUS

CN Glycine, N-[2-(bis(carboxymethyl)amino)ethyl]-N-(1-oxododecyl)-(9CI) (CA INDEX NAME)



IC ICM A61K0007-13

INCL 008405000; 008406000; 008432000

CC 62-3 (Essential Oils and Cosmetics)

IT 60-00-4, Ethylenediaminetetraacetic acid, biological studies  
67-42-5 67-43-6, Diethylenetriaminepentaacetic acid 77-92-9,  
Citric acid, biological studies 87-69-4, Tartaric acid, biological  
studies 93-62-9, N-2-Hydroxyethyliminodiacetic acid 124-43-6  
139-13-9, Nitrilotriacetic acid 139-33-3 142-47-2, Monosodium  
glutamate 150-39-0, N-(Hydroxyethyl)ethylene diamine triacetic  
acid 526-95-4, Gluconic acid 1310-58-3, Potassium hydroxide,  
biological studies 1310-65-2, Lithium hydroxide 1310-73-2,  
Sodium hydroxide, biological studies 1327-36-2, Aluminosilicate  
6419-19-8, Aminotrimethylenephosphonic acid 6834-92-0, Disodium  
silicate 7408-20-0, Iminodisuccinic acid 7601-54-9, Trisodium  
phosphate 7722-84-1, Hydrogen peroxide, biological studies  
7778-53-2, Tripotassium phosphate 7789-31-3D, Bromic acid, alkali  
metal salts 10006-28-7 14531-56-7 148124-42-9  
443976-78-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair straightening compns. comprising hydroxide and oxidizing agent)

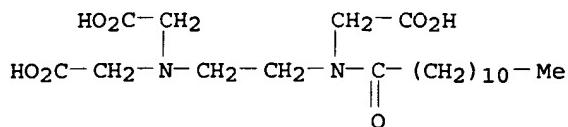
L16 ANSWER 12 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:133647 HCPLUS

DOCUMENT NUMBER: 138:175528  
 TITLE: Compositions comprising at least one hydroxide compound and at least one reducing agent, and methods for relaxing hair  
 INVENTOR(S): Nguyen, Nghi Van; Cannell, David W.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 12 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2003033677	A1	20030220	US 2001-931912	200108 20
				<--
WO 2003015725	A2	20030227	WO 2002-US21849	200208 16
				<--
WO 2003015725	A3	20031127		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002326364	A1	20030303	AU 2002-326364	200208 16
				<--
PRIORITY APPLN. INFO.:		US 2001-931912	A	200108 20
				<--
		WO 2002-US21849	W	200208 16
				<--

AB Compns., optionally heat-activated, methods and kits for lanthionizing keratinous fibers to achieve relaxation of said keratinous fibers comprising applying to keratinous fibers a composition comprising at least one hydroxide compound and at least one reducing agent chosen from thiols, sulfites, and derivs. thereof, and heating the keratinous fibers. Relaxing efficiency of naturally kinky hair treated with compns. comprising from 0.1% to 1.0% NaOH and up to 5% ammonium thioglycolate was shown.  
 IT 148124-42-9  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (compns. comprising at least one hydroxide compound and at least one reducing agent, and methods for relaxing hair)  
 RN 148124-42-9 HCAPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-  
 (9CI) (CA INDEX NAME)



IC ICM A61K0007-13  
 INCL 008405000; 008406000; 008432000  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 52-90-4, Cysteine, biological studies 60-00-4,  
 Ethylene-diaminetetraacetic acid, biological studies 67-42-5  
 67-43-6, Diethylenetriaminepentaacetic acid 67-68-5, DMSO,  
 biological studies 68-11-1, biological studies 77-92-9, Citric  
 acid, biological studies 93-62-9, N-2-Hydroxyethylimino diacetic  
 acid 139-13-9, Nitrilotriacetic acid 150-39-0, N-(Hydroxyethyl)  
 ethylene diamine triacetic acid 526-83-0, Tartaric acid  
 526-95-4, Gluconic acid 1310-58-3, Potassium hydroxide, biological  
 studies 1310-65-2, Lithium hydroxide 1310-73-2, Sodium  
 hydroxide, biological studies 1318-10-1, Analcime 1318-50-9,  
 Epistilbite 1318-63-4, Heulandite 1318-80-5, Laumontite  
 1318-83-8, Levynite 1318-95-2, Natrolite 1319-20-6, Scolecite  
 2817-45-0, Aminophosphonic acid 5421-46-5, Ammonium thioglycolate  
 6419-19-8, Aminotrimethylene phosphonic acid 6834-92-0, Disodium  
 silicate 7379-27-3 7379-28-4 7408-20-0, Iminodisuccinic acid  
 7601-54-9, Trisodium phosphate 7778-53-2, Tripotassium phosphate  
 10006-28-7 12005-30-0, Mesolite 12026-10-7, Thomsonite  
 12173-28-3, Faujasite 12173-98-7, Mordenite 12174-18-4,  
 Phillipsite 12197-41-0, Brewsterite 12251-23-9, Gismondine  
 12251-35-3, Gmelinite 12251-39-7, Harmotome 12252-36-7,  
 Edingtonite 12399-58-5, Stilbite 13598-36-2D, Phosphonic acid,  
 derivs. 15181-46-1, Hydrogen sulfite 15477-76-6, Phosphonate  
 61026-54-8, Chabazite 61146-43-8 148124-42-9  
 443976-78-1  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (compns. comprising at least one hydroxide compound and at least  
 one reducing agent, and methods for relaxing hair)

L16 ANSWER 13 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2003:118578 HCPLUS  
 DOCUMENT NUMBER: 138:158564  
 TITLE: Cleansing compositions containing chelating  
 surfactants for skin and hair products  
 INVENTOR(S): Tanner, Paul Robert; Kinderdine, Sherrie L.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 16 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

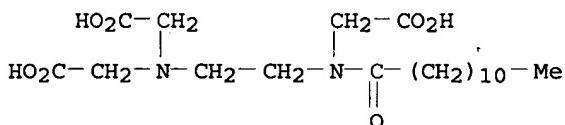
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2003032573	A1	20030213	US 2001-903276	200107 11

PRIORITY APPLN. INFO.: US 2001-903276  
 <--  
 200107  
 11

OTHER SOURCE(S): MARPAT 138:158564  
 AB The present invention is directed to a cleansing composition containing 1-74

wt% of the cleansing composition of a surfactant composition, wherein the surfactant composition further includes 5-100 wt% of the surfactant composition of a chelating surfactant; and 0-95 wt% of the surfactant composition of a non-chelating surfactant; and 1-75 wt% of the cleansing composition of an inorg. or organic salt having divalent metal counterions, wherein, the ratio of the salt to the surfactant composition is 0.35-4.0. For example, a surfactant composition was prepared containing decyl polyglucoside 3%, cocoamidopropyl betaine 3%, sodium lauroyl sarcosinate 1.5%, sodium lauroyl ethylenediaminetriacetate 7%, and water to 100%. The composition was then coated onto a 6 in x 7.5 in single-layered hydroentangled/hydroapertured substrate comprising 70% rayon and 30% polyester fibers and the treated substrate was allowed to dry.

- IT 148124-41-8, Sodium lauroyl ethylenediaminetriacetic acid  
 RL: COS (Cosmetic use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (production of cleansing compns. containing chelating surfactants for skin and hair products)
- RN 148124-41-8 HCPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-, trisodium salt (9CI) (CA INDEX NAME)



## ●3 Na

- IC ICM C11D0001-00  
 INCL 510400000; 510480000  
 CC 62-4 (Essential Oils and Cosmetics)  
 IT 81-13-0, D-Panthenol 98-92-0, Niacinamide 99-76-3, Methylparaben 100-51-6, Benzyl alcohol, biological studies 137-16-6, Sodium lauroyl sarcosinate 7487-88-9, Magnesium sulfate, biological studies 9006-65-9, Dimethicone 10043-52-4, Calcium chloride, biological studies 36574-66-0D, N-coco acyl derivs. 142769-93-5  
 148124-41-8, Sodium lauroyl ethylenediaminetriacetic acid  
 RL: COS (Cosmetic use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (production of cleansing compns. containing chelating surfactants for skin and hair products)

L16 ANSWER 14 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:675791 HCPLUS  
 DOCUMENT NUMBER: 137:221744  
 TITLE: Hair relaxer compositions comprising a hydroxide compound and an activating agent  
 INVENTOR(S): Cannell, David W.; Mathur, Hitendra; Nguyen, Nghi Van  
 PATENT ASSIGNEE(S): L'oreal S.A., Fr.  
 SOURCE: PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002067875 A1 20020906 WO 2002-US3392  
200202  
21

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,  
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,  
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,  
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,  
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,  
SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
SN, TD, TG

US 2002159962 A1 20021031 US 2001-789667  
200102  
22

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US 7118736 B2 20061010  
EP 1379214 A1 20040114 EP 2002-723098  
200202  
21

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
JP 2004533998 T2 20041111 JP 2002-567244  
200202  
21

PRIORITY APPLN. INFO.: US 2001-789667 A  
200102  
22

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WO 2002-US3392 W  
200202  
21

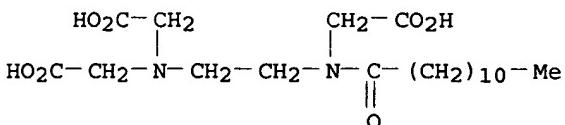
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AB A composition for lanthionizing **keratin** fibers, i.e., **human hair**, comprises (i) at least one hydroxide compound, with the proviso that said at least one hydroxide compound is not sodium hydroxide, lithium hydroxide or potassium hydroxide, and (ii) at least one activating agent chosen from cysteine-based compds. Methods and kits for using the **hair relaxer** compns. are also described. thereof. For example, natural kinky **hair** was relaxed using a com. no-lye relaxer cream (5.71% by weight Ca(OH)<sub>2</sub>) with an activator solution containing decreasing amts. of guanidine carbonate. The relaxing efficiency decreased as the concentration of guanidine carbonate was lowered. A concentration of guanidine carbonate of > 4.1% by weight in the final mixture efficiently relaxed the **hair**.

IT 148124-42-9  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)

RN 148124-42-9 HCPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-(9CI) (CA INDEX NAME)



IC ICM A61K0007-00  
CC 62-3 (Essential Oils and Cosmetics)  
ST hair relaxer straightener hydroxide cysteine activating agent  
IT Surfactants  
(amphoteric; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Surfactants  
(anionic; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Surfactants  
(cationic; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Amino acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(diamino; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Hair preparations  
(dyes; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Chelating agents  
Sequestering agents  
(hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Alkali metal hydroxides  
Alkaline earth hydroxides  
Amino acids, biological studies  
Hydrocarbon oils  
Phosphates, biological studies  
Polymers, biological studies  
Polysiloxanes, biological studies  
Proteins  
Silicates, biological studies  
Vitamins  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Human  
(hair; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Hair  
(human; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Actinide compounds  
Rare earth compounds  
Transition metal compounds  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hydroxides; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Sulfonic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hydroxy-containing; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hydroxy; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Surfactants  
(nonionic; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Hair preparations  
(straighteners; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)  
IT Hydroxides (inorganic)  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(transition metal; hair relaxer compns. comprising

hydroxide compound and cysteine-based activating agent)

IT Fats and Glyceridic oils, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (vegetable; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)

IT 52-90-4, L-Cysteine, biological studies 52-90-4D, Cysteine, derivs., homologs and salts 60-00-4, EDTA, biological studies 67-43-6 67-68-5, DMSO, biological studies 77-92-9, Citric acid, biological studies 93-62-9, N-2-Hydroxyethyliminodiacetic acid 139-13-9, Nitrilotriacetic acid 139-33-3 142-47-2, Monosodium glutamate 150-39-0, N-(Hydroxyethyl)ethylene diaminetriacetic acid 526-83-0, Tartaric acid 526-95-4, Gluconic acid 616-91-1, N-Acetyl-L-cysteine 1305-62-0, Calcium hydroxide, biological studies 1310-58-3, Potassium hydroxide, biological studies 1310-65-2, Lithium hydroxide 1310-73-2, Sodium hydroxide, biological studies 2338-04-7, L-Homocysteine thiolactone 2485-62-3, Cysteine methyl ester 2817-45-0, Aminophosphonic acid 2885-79-2, N-Propionylcysteine 3411-58-3, Cysteine ethyl ester 6027-13-0, Homocysteine 6419-19-8, Aminotrimethylenephosphonic acid 6834-92-0, Disodium silicate 7217-84-7, N-Benzoylcysteine 7408-20-0, Iminodisuccinic acid 7601-54-9, Trisodium phosphate 7778-53-2, Tripotassium phosphate 10006-28-7 10061-64-0 14280-30-9, Hydroxide, biological studies 19900-78-8 24583-23-1 53404-51-6, Potassium EDTA 60654-26-4, L-Cysteine propyl ester 62309-95-9 64120-25-8, Guanidine hydroxide 67603-48-9, N-Caproyl-L-cysteine 100224-74-6, Guanidine carbonate 125559-75-3 148124-42-9 214558-33-5 443976-78-1 454679-15-3 454679-16-4 454679-17-5 454679-18-6 454679-19-7 454679-20-0 455280-34-9, N-Toluoylcysteine 455280-35-0, N-(Ethylbenzyl)cysteine 455280-36-1, N-(Propylbenzoyl)cysteine 455280-37-2, N-Toluoylhomocysteine thiolactone 455280-38-3, N-(Ethylbenzyl)homocysteine thiolactone  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)

IT 13598-36-2, Phosphonic acid  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydroxy-containing; hair relaxer compns. comprising hydroxide compound and cysteine-based activating agent)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 15 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:574884 HCPLUS  
 DOCUMENT NUMBER: 137:129537  
 TITLE: Hair relaxer compositions utilizing cation exchange compositions  
 INVENTOR(S): Cannell, David W.; Nguyen, Nghi Van  
 PATENT ASSIGNEE(S): L'Oreal S.A., Fr.  
 SOURCE: PCT Int. Appl., 29 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002058651	A1	20020801	WO 2001-US43193	200111 20

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,  
 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
 NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,  
 TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,  
 CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,  
 SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

US 6435193 B1 20020820 US 2000-717206  
 200011  
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 EP 1337232 A1 20030827 EP 2001-994075  
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 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
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 US 2003049221 A1 20030313 US 2002-214942  
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 PRIORITY APPLN. INFO.: US 2000-717206 A  
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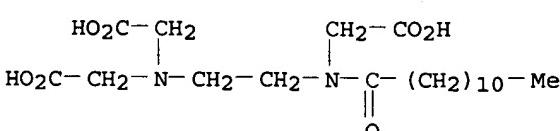
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 WO 2001-US43193 W  
 200111  
 20

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 AB A composition for lanthionizing keratin fibers comprising at least one multivalent metal hydroxide and at least one cation exchange composition. The invention is also drawn to a method for lanthionizing keratin fibers to achieve relaxation of the keratinous fibers. Thus a two component hair relaxing compns. were prepared. The cream contained (weight/weight%): cetyl alc. 1.0; steareth-2 0.5; Steareth-10 2.5; mineral oil 15.0; petrolatum 5.5; cetearyl alc. and cetearyl phosphate 7.5; propylene glycol 3.0; tetrasodium EDTA 30.5; water 34.5. The second components contained 0.3 g calcium hydroxide, 2 g water and various amts. (0; 0.2; 0.5; and 1 g) of zeolite clay (sodium aluminosilicate). 1.8 G of the complexing agent cream and the second component were mixed; the relaxing efficiency increased from 64% to 79% when 1 g zeolite clay was used compared to the composition without zeolite clay.

IT 148124-42-9  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair relaxer compns. utilizing cation exchange  
 compns.)

RN 148124-42-9 HCPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-  
 (9CI) (CA INDEX NAME)



IC ICM A61K0007-09  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 60-00-4, Ethylenediaminetetraacetic acid, biological studies  
 67-42-5 67-68-5, DMSO, biological studies 77-92-9, Citric acid,  
 biological studies 93-62-9, N-2-Hydroxyethyliminodiacetic acid  
 102-71-6, Triethanolamine, biological studies 111-40-0,

Diethylenetriamine 111-42-2, Diethanolamine, biological studies  
 139-13-9, Nitrilotriacetic acid 141-43-5, Monoethanolamine,  
 biological studies 142-47-2, Monosodium glutamate 150-39-0,  
 N-(Hydroxyethyl)ethylene diamine triacetic acid 526-83-0, Tartaric  
 acid 1305-62-0, Calcium hydroxide, biological studies 1309-42-8,  
 Magnesium hydroxide 1312-76-1, Potassium silicate 1318-50-9,  
 Epistilbite 1318-63-4, Heulandite 1318-80-5, Laumontite  
 1318-83-8, Levynite 1318-95-2, Natrolite 1319-20-6, Scolecite  
 1344-00-9, Sodium aluminosilicate 1344-09-8, Sodium silicate  
 2817-45-0, Aminophosphonic acid 6419-19-8,  
 Aminotrimethyleneephosphonic acid 6834-92-0, Disodium silicate  
 7408-20-0, Iminodisuccinic acid 7601-54-9, Trisodium phosphate  
 7778-53-2, Tripotassium phosphate 10006-28-7 12043-66-2,  
 Mesolite 12173-28-3, Faujasite 12173-98-7, Mordenite  
 12174-18-4, Phillipsite 12197-41-0, Brewsterite 12251-23-9,  
 Gismondine 12251-35-3, Gmelinite 12251-39-7, Harmotome  
 12252-36-7, Edingtonite 12446-28-5, Stilbite 12626-88-9,  
 Manganese hydroxide 12627-14-4, Lithium silicate 12672-51-4,  
 Cobalt hydroxide 13598-36-2D, Phosphonic acid, hydroxy derivs.  
 16970-11-9, Thomsenolite 17194-00-2, Barium hydroxide  
 18480-07-4, Strontium hydroxide 20427-58-1, Zinc hydroxide  
 20427-59-2, Cupric hydroxide 21645-51-2, Aluminum hydroxide,  
 biological studies 53404-51-6, Potassium EDTA 61026-54-8,  
 Chabazite 61146-43-8, Glycine, N,N'-1,2-ethanediylbis[N-  
 (carboxymethyl)-, lithium salt 126853-99-4, Molybdenum hydroxide  
 148124-42-9 443976-78-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair relaxer compns. utilizing cation exchange  
 compns.)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L16 ANSWER 16 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2001:661220 HCPLUS  
 DOCUMENT NUMBER: 135:215751  
 TITLE: Hair relaxer compositions containing complexing  
 agent activators  
 INVENTOR(S): Van Nguyen, Nghi; Cannell, David W.  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: PCT Int. Appl., 32 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001064171	A2	20010907	WO 2001-US6338	200102 28

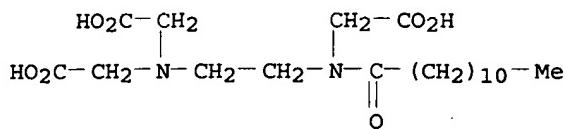
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WO 2001064171 A3 20020110  
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 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,  
 NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,  
 TZ, UA, UG, US, UZ, VN, YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,  
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD,  
 TG

US 6562327 B1 20030513 US 2000-516942

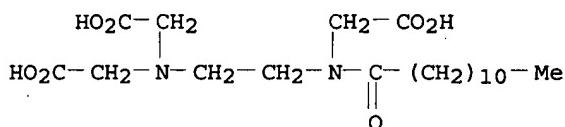
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CA 2401009	AA	20010907	<-- CA 2001-2401009
			200102 28
EP 1261312	A2	20021204	<-- EP 2001-916273
			200102 28
EP 1261312	B1	20060906	<--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001008907	A	20021224	BR 2001-8907
			200102 28
JP 2003524658	T2	20030819	<-- JP 2001-563069
			200102 28
ZA 2002006840	A	20030404	<-- ZA 2002-6840
			200208 27
PRIORITY APPLN. INFO.:		US 2000-516942	<-- A 200003 01
		WO 2001-US6338	<-- W 200102 28

- AB The present invention provides a composition for lanthionizing keratin fibers comprising at least 1 multivalent metal hydroxide and at least 1 complexing agent effective for dissociating one multivalent metal hydroxide in sufficient quantity to effect lanthionization of the keratin fibers. In one embodiment, the complex that is formed between the complexing agent and a metal ion from the multivalent metal hydroxide is soluble in water. thus, a gel was prepared from mineral oil 15.0, petrolatum 5.5, Sr(OH)2 octahydrate 18.6, propylene glycol 3.0, acrylates/Ceteth-20 itaconate copolymer 7.0, and water 50.9%. The relaxer gel (6 g) was mixed with a solution of 1.83 g tetrasodium EDTA in 2 g water and the mixture was applied to kinky hair. The relaxing efficiency of the strontium/EDTA hair relaxer was found to be in excess of 85%.
- IT 148124-41-8 148124-42-9  
 RL: BUU (Biological use, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (hair relaxer compns. containing complexing agent activators)
- RN 148124-41-8 HCPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-, trisodium salt (9CI) (CA INDEX NAME)



## ● 3 Na

RN 148124-42-9 HCAPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-  
 (9CI) (CA INDEX NAME)



IC ICM A61K0007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 60-00-4, EDTA, biological studies 67-43-6,  
 Diethylenetriaminepentaacetic acid 77-92-9, Citric acid,  
 biological studies 87-69-4, Tartaric acid, biological studies  
 93-62-9, N-(2-Hydroxyethyliminodiacetic acid 139-13-9 139-89-9,  
 Trisodium N-(hydroxyethyl)ethylenediaminetriacetate 140-01-2,  
 Pentasodium diethylenetriaminepentaacetate 150-39-0,  
 N-(Hydroxyethyl)ethylenediaminetriacetic acid 1305-62-0, Calcium  
 hydroxide (Ca(OH)2), biological studies 1309-42-8, Magnesium  
 hydroxide 1318-10-1, Analcime 1318-50-9, Epistilbite  
 1318-63-4, Heulandite 1318-80-5, Laumontite 1318-83-8, Lévynite  
 1318-95-2, Natrolite 1319-20-6, Scolecite 1327-36-2,  
 Aluminosilicate 1763-07-1, Guanidine phosphate 2235-43-0  
 5064-31-3, Trisodium Nitrilotriacetate 6419-19-8,  
 Aminotrimethyleneephosphonic acid 6834-92-0, Sodium metasilicate  
 7408-20-0, Iminodisuccinic acid 7601-54-9, Trisodium phosphate  
 7778-53-2, Tripotassium phosphate 10006-28-7, Silicic acid  
 (H2SiO3), dipotassium salt 12043-66-2, Mesolite 12173-28-3,  
 Faujasite 12173-98-7, Mordenite 12174-18-4, Phillipsite  
 12197-41-0, Brewsterite 12251-23-9, Gismondine 12251-32-0,  
 Chabazite 12251-35-3, Gmelinite 12251-39-7, Harmotome  
 12252-36-7, Edingtonite 12399-54-1, Thomsonite 12446-28-5,  
 Stilbite 17194-00-2, Barium hydroxide (Ba(OH)2) 18480-07-4,  
 Strontium hydroxide (Sr(OH)2) 18933-05-6, Manganese hydroxide  
 (Mn(OH)2) 20427-58-1, Zinc hydroxide (Zn(OH)2) 20427-59-2,  
 Copper hydroxide (Cu(OH)2) 21041-93-0, Cobalt hydroxide (Co(OH)2)  
 21645-51-2, Aluminum hydroxide (Al(OH)3), biological studies  
 120070-48-6 126853-99-4, Molybdenum hydroxide 148124-41-8  
 148124-42-9  
 RL: BUU (Biological use, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (hair relaxer compns. containing complexing agent  
 activators)

L16 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1999:225813 HCAPLUS  
 DOCUMENT NUMBER: 130:316420  
 TITLE: Biodegradable cleaning compositions with good  
 disinfecting properties for skin and hair  
 INVENTOR(S): Kaneko, Yohei; Danjo, Hiroshi  
 PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11092794	A2	19990406	JP 1997-256391	199709 22

PRIORITY APPLN. INFO.: JP 1997-256391 199709  
22

&lt;--

OTHER SOURCE(S): MARPAT 130:316420

AB Title compns. contain (A) anionic surfactants 2-60, (B) cationic disinfectants 0.05-5, and (C) aminopolycarboxylic acids or their salts  $(M_02CCH_2)_2NCH(R_1CO_2M)CO_2M$  [R<sub>1</sub> = CH<sub>2</sub>, CH(OH), CH<sub>2</sub>CH<sub>2</sub>; M = H, alkali metal, alkanolamine, ammonium] 0.05-5% at C/B ratio 0.5-3. Thus, a detergent composition comprising polyoxyethylene lauryl ether sulfate sodium salt 5, benzalkonium chloride 1, trisodium N,N-bis(carboxymethyl)-L-aspartate 1, lauric acid diethanolamide 5%, and balance H<sub>2</sub>O showed good disinfecting properties, foamability, and biodegradability.

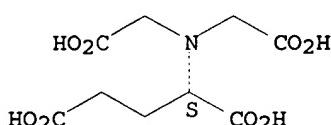
IT 63998-93-6, Trisodium N,N-bis(carboxymethyl)-L-glutamate  
RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)  
(biodegradable cleaning compns. containing anionic surfactants, cationic disinfectants, and aminopolycarboxylic acids for skin and hair)

RN 63998-93-6 HCPLUS

CN L-Glutamic acid, N,N-bis(carboxymethyl)-, trisodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●3 Na

IC ICM C11D0010-02  
ICS A01N0033-12; A01N0037-04; A01N0037-44; C11D0001-02;  
C11D0001-62; C11D0001-65; C11D0003-33; C11D0003-48

CC 62-1 (Essential Oils and Cosmetics)

IT 63998-93-6, Trisodium N,N-bis(carboxymethyl)-L-glutamate  
205938-57-4 223497-87-8

RL: BUU (Biological use, unclassified); BIOL (Biological study);  
USES (Uses)

(biodegradable cleaning compns. containing anionic surfactants, cationic disinfectants, and aminopolycarboxylic acids for skin and hair)

L16 ANSWER 18 OF 18 HCPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:502555 HCPLUS

DOCUMENT NUMBER: 129:193509

TITLE: Antidandruff hair preparations  
 INVENTOR(S): Shin, Monzou; Choi, Sho Sak; Kaku, Yoo Duk; Won,  
 Sei Kahn; Chung, Han Il; Won, kei Ki  
 PATENT ASSIGNEE(S): Pacific Chemical Co., Ltd., S. Korea  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10203938	A2	19980804	JP 1997-174569	199706 30
JP 3434435	B2	20030811		<--
KR 193901	B1	19990615	KR 1997-2207	199701 27
KR 193902	B1	19990615	KR 1997-2208	199701 27
KR 199855	B1	19990615	KR 1997-9984	199703 22
US 5886031	A	19990323	US 1997-861730	199705 22
FR 2758722	A1	19980731	FR 1997-8135	199706 27
FR 2758722	B1	20000804		<--
FR 2758720	A1	19980731	FR 1997-12825	199710 14
FR 2758720	B1	20000804		<--
US 6054450	A	20000425	US 1998-220802	199812 28
JP 2002154936	A2	20020528	JP 2001-352658	200111 19
JP 3819765	B2	20060913	KR 1997-2207	A 199701 27
PRIORITY APPLN. INFO.:			KR 1997-2208	A 199701 27
			KR 1997-9984	A 199703 22
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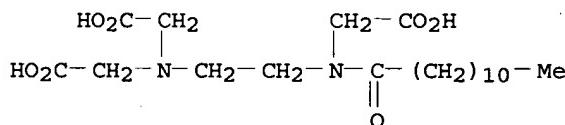
KR 1997-17380	A	199705 07
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US 1997-861720	A3	199705 22
<--		
JP 1997-174569	A3	199706 30
<--		
US 1998-100753	B1	199806 22

AB Antidandruff hair preps. comprise iodopropinylbutylcarbamate 0.001-20, zinc pyrithione 0.001-5, chelators 0.001-10 and N-acylethylene triacetate 0.01-20 weight%.

IT 206886-68-2 211932-27-3 211932-28-4  
211932-29-5  
RL: BUU (Biological use, unclassified); BIOL (Biological study);  
USES (Uses)  
(antidandruff hair preps.)

RN 206886-68-2 HCPLUS

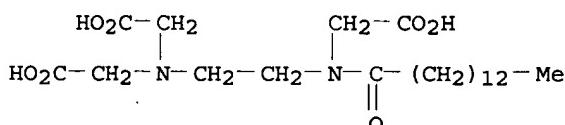
CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxododecyl)-, sodium salt (9CI) (CA INDEX NAME)



●x Na

RN 211932-27-3 HCPLUS

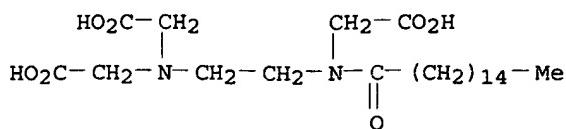
CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxotetradecyl)-, sodium salt (9CI) (CA INDEX NAME)



●x Na

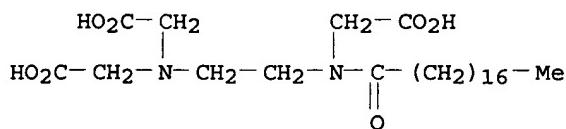
RN 211932-28-4 HCPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxohexadecyl)-, sodium salt (9CI) (CA INDEX NAME)



●x Na

RN 211932-29-5 HCAPLUS  
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(1-oxooctadecyl)-, sodium salt (9CI) (CA INDEX NAME)



●x Na

IC ICM A61K0007-06  
 ICS A61K0007-00  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 60-00-4, Edta, biological studies 67-43-6,  
 Diethylenetriaminepentaacetic acid 74-85-1D, Ethene, N-acyl,  
 triacetate, biological studies 107-15-3, 1,2-Ethanediamine,  
 biological studies 111-40-0 482-54-2,  
 Cyclohexanediaminetetraacetic acid 3055-17-2 13463-41-7, Zinc  
 pyrithione 37571-28-1, Tetraethylenetriamine 55406-53-6  
 206886-68-2 211932-27-3 211932-28-4  
**211932-29-5**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (antidandruff hair prepns.)

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